

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



1.96  
R31FS0  
C08.2



# **WATER SUPPLY OUTLOOK FOR OREGON**

U. S. DEPT. OF AGRICULTURE  
NATIONAL AGRICULTURAL LIBRARY  
RECEIVED  
APR 19 1973  
PROCUREMENT SECTION  
CURRENT SERIAL RECORDS

Prepared by  
**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**  
Collaborating with  
**OREGON STATE UNIVERSITY**  
and  
**STATE ENGINEER of OREGON**

Data included in this report were obtained by the agencies named above in cooperation with other Federal, State and private organizations.

AS OF  
**APR. 1, 1973**



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

### PUBLISHED BY SOIL CONSERVATION SERVICE

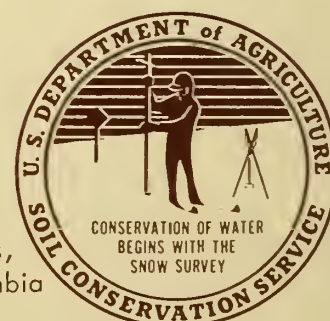
The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



COVER PHOTO NUMBER JRC-286-4

# **WATER SUPPLY OUTLOOK FOR OREGON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued*

APRIL 8, 1973

*Issued by*

**KENNETH E. GRANT**

ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
WASHINGTON, D C

|||||

*Released by*

**A.J. WEBBER**

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
PORTLAND, OREGON

*In Cooperation with*

**G. BURTON WOOD**

DIRECTOR  
OREGON AGRICULTURAL  
EXPERIMENT STATION

**CHRIS L. WHEELER**

STATE ENGINEER  
STATE OF OREGON

|||||

*Report prepared by*

**TOMMY A. GEORGE, Snow Survey Supervisor**

and

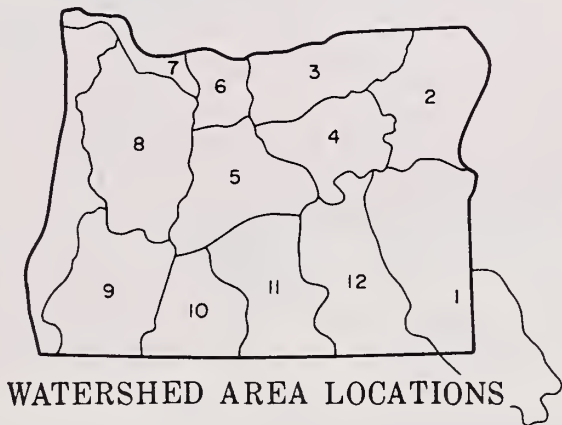
**HOWARD M. VANCE, Assistant Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
1218 S W WASHINGTON ST  
PORTLAND, OREGON 97205

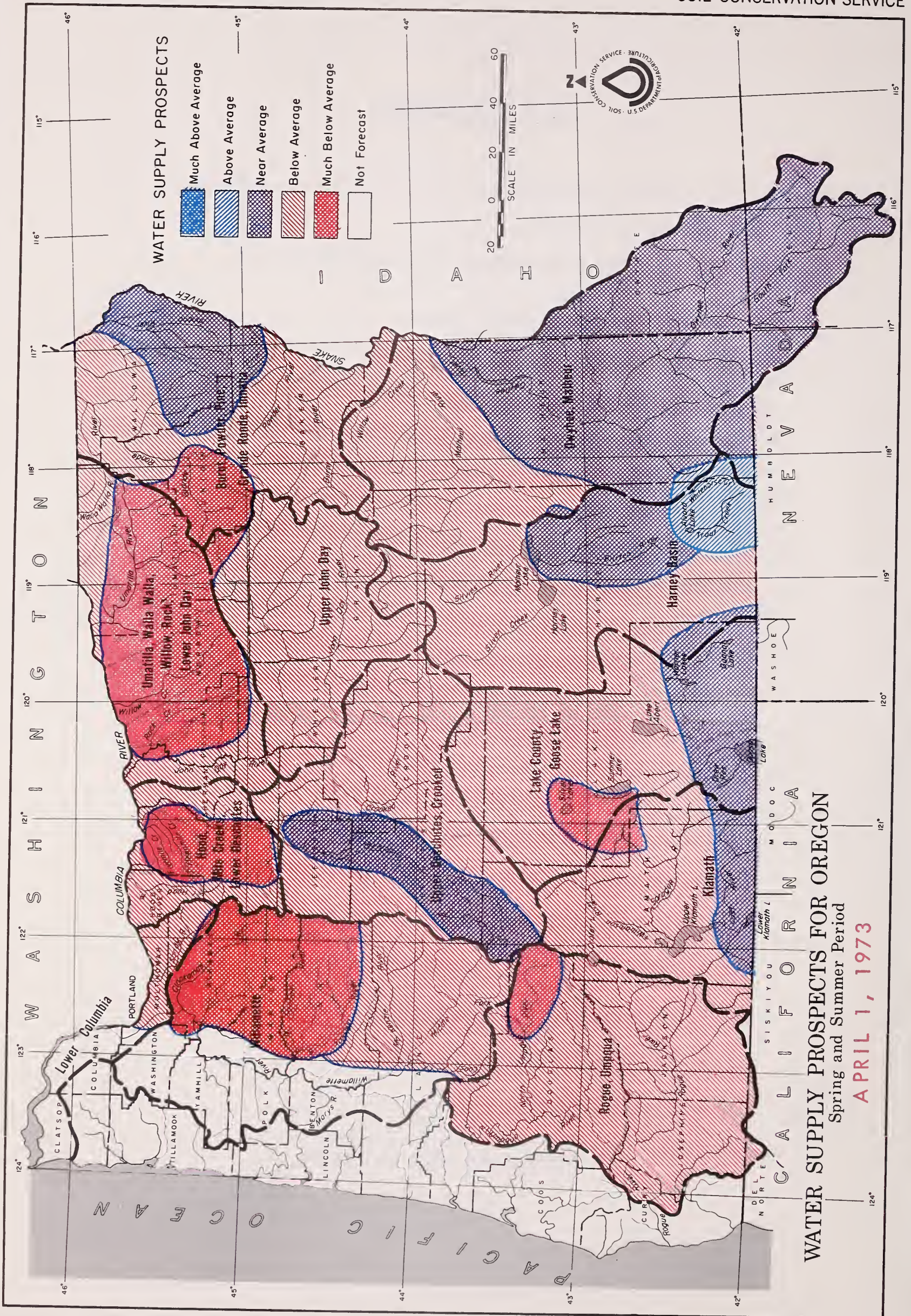


TABLE OF CONTENTS

	PAGE
WATER SUPPLY PROSPECTS FOR OREGON.....(MAP).....	FACING PAGE 1
WATER SUPPLY OUTLOOK FOR OREGON.....	1
DETAILED WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS	
OWYHEE, MALHEUR.....	AREA 1
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA.....	AREA 2
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY.....	AREA 3
UPPER JOHN DAY.....	AREA 4
UPPER DESCHUTES, CROOKED.....	AREA 5
HOOD, MILE CREEKS, LOWER DESCHUTES.....	AREA 6
LOWER COLUMBIA.....	AREA 7
WILLAMETTE.....	AREA 8
ROGUE, UMPQUA.....	AREA 9
KLAMATH.....	AREA 10
LAKE COUNTY, GOOSE LAKE.....	AREA 11
HARNEY BASIN.....	AREA 12
BASIC DATA SUPPLEMENTS	
I	SNOW
II	SOIL MOISTURE
III	PRECIPITATION
MAP AND INDEX OF OREGON SNOW COURSES.....(MAP)	
LIST OF COOPERATORS.....INSIDE BACK COVER	









# WATER SUPPLY OUTLOOK for OREGON

APRIL 1, 1973

Oregon water users will have average to much below average supplies this next summer. Reservoir storage is good and those with access will be able to adequately supply their needs. Users dependent on direct streamflow will experience shortages generally throughout the summer and especially during the late season. The mountain snow cover is the poorest since 1968, which was an extremely dry year, except on the Owyhee drainage where it is above normal. Streamflow will be much below average this coming summer.

## SNOW COVER

The Owyhee basin, Trout Creek Range, and the Steens Mountains in Southeastern Oregon are the only areas of the state with above average snow cover. The snowpack in these areas varies from 130% on the Owyhee up to twice normal in the Trout Creek mountains. The rest of the state generally ranges from 25 to 65% of average in the Cascades, the Blue Mountains of Eastern Oregon and the John Day Basin. The snow cover is generally the worst since the dry year of 1968.

## PRECIPITATION

Precipitation has been less than normal all winter in Oregon except for the extreme southeastern corner of the state which has been above average. It has been two-thirds to three-fourths normal for the November-March period. Rainfall during March was also less than usual with 20% of average amounts on the Hood River and Deschutes watersheds, ranging on up to 80% of normal in Western Oregon and the rest of the Cascades. Eastern Oregon had about half the normal rainfall for the month.

## SOIL MOISTURE

Soils under the snowpack are somewhat drier than usual and this condition will detract from the snowmelt runoff.

## RESERVOIR STORAGE

Most major irrigation reservoirs are storing more than average amounts of water for April 1. Some of the Willamette reservoirs, as well as Bully Creek, Warm Springs, McKay, Ochoco, and Drews in Eastern Oregon will

continued--

not fill. Users dependent on reservoir storage will have normal supplies through the irrigation season. Twenty-four major reservoirs are at 83% of capacity at this time. This is 118% of the 1953-67 average.

## STREAMFLOW

Streamflow was 40 to 80% of average during March except on the Owyhee which was near normal. Streams will produce much below to below average amounts this coming summer. These will be the lowest amounts since 1968.

Representative forecasted streamflow for the April-September period is as follows:

<u>STREAM</u>	<u>Percent 1953-67 Average</u>
Owyhee Net Inflow	115
Malheur near Drewsey	57
Deschutes at Benham Falls	88
Grande Ronde at La Grande	48
Willamette, Mid. Fk. near Oakridge	67
Klamath Lake net Inflow	64
Rogue near Raygold	73
Silvies near Burns	52
John Day, Mid. Fk. near Ritter	63

These forecasts assume average weather conditions from now until the end of September.

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.





# WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

*as of*

APRIL 1, 1973



U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

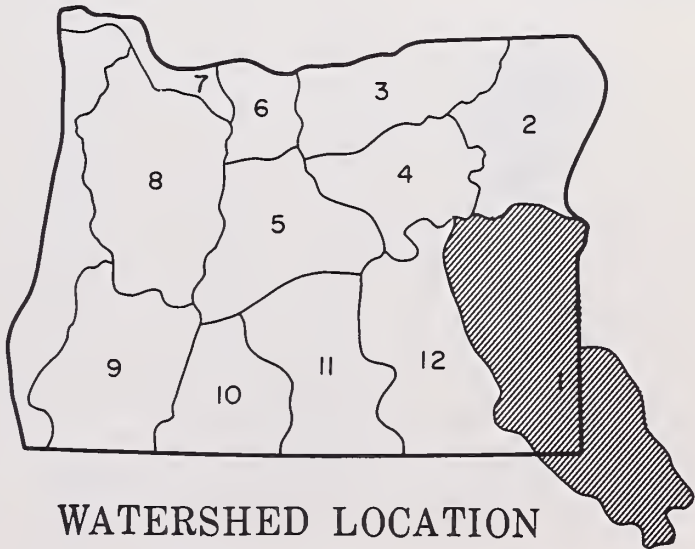
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE AVERAGE TO ABOVE AVERAGE IN THE SOUTHERN HALF OF MALHEUR COUNTY AND ON THE OWYHEE. THE NORTHERN HALF OF THE COUNTY WILL GENERALLY HAVE AVERAGE TO BELOW AVERAGE SUPPLIES. THE SNOW COVER IS 135% OF NORMAL ON THE OWYHEE BASIN, 85% ON JORDAN CREEK AND 75% ON THE MALHEUR. SOILS BENEATH THE SNOWPACK ARE DRIER THAN USUAL. THE PRECIPITATION FOR THE NOVEMBER-MARCH PERIOD HAS BEEN 95% OF AVERAGE. OWYHEE RESERVOIR IS NEARLY FULL. BULLY CREEK, WARMSPRINGS AND ANTELOPE WILL PROBABLY NOT FILL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Average	Fair
Bully Creek	Average	Fair
Cow Creek	Average	Fair
Jordan Creek	Average	Fair
Jordan Valley Irrig. Dist.	Average	Fair
McDermitt Creek	Average	Fair
Oregon Canyon Creek	Average	Average
Owyhee Project	Excellent	Excellent
Succor Creek	Average	Fair
Tenmile Creek	Average	Fair
Vale-Oregon Irrig. Dist.	Average	Average
Warm Springs Irrig. Dist.	Average	Average
Willow Creek (Reservoired)	Average	Average



WATERSHED LOCATION

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Bully Creek at Warm Springs	10	77	March-May		11.4
Jordan Creek above Lone Tree Creek	73	87	April-July		85 <sup>m</sup>
Malheur near Drewsey	41	58	April-July		71
	41	57	April-Sept.		72
Malheur, North Fork at Beulah	34	61	April-July		55
	37	62	April-Sept.		60
Owyhee Reservoir Net Inflow	327	116	April-July	339	281
	346	115	April-Sept.	363	300

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	June 20	May 24
	250	July 4	June 20

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Antelope	70.0	<sup>b</sup>	41.9	19.1
Beulah	60.0	42.6	55.2	41.5
Bully Creek	30.0	19.6	25.7	17.4
Owyhee	715.0	702.6	695.6	476.8
Warm Springs	191.0	123.8	166.4	117.3

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Jordan Creek	1	99	--
Malheur River	3	72	81
Owyhee River	3	79	70

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Jordan Creek	4	50	85
Malheur River	5	75	75
Owyhee River	5	120	135

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.





# WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

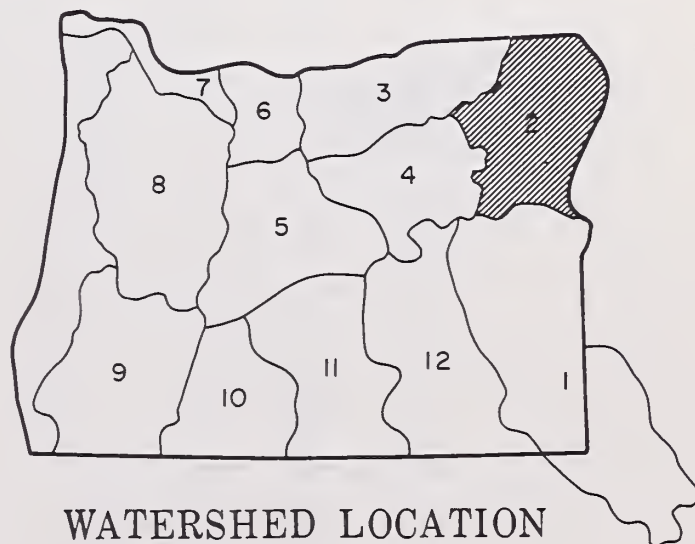
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE GENERALLY BELOW AVERAGE. MUCH BELOW AVERAGE SUPPLIES WILL BE AVAILABLE ON THE UPPER GRANDE RONDE. THE SNOW COVER VARIES FROM 65% ON THE BURNT DRAINAGE UP TO 80% OF NORMAL IN THE WALLOWA MOUNTAINS. THE UPPER GRANDE RONDE HAS A SNOW COVER ONLY THIRTY-FIVE PERCENT OF AVERAGE. SOILS BENEATH THE SNOWPACK ARE DRIER THAN USUAL IN ALL AREAS EXCEPT THE WALLOWAS WHERE CONDITIONS ARE NORMAL. RESERVOIR STORAGE IS ABOUT AVERAGE FOR THIS TIME OF YEAR. PRECIPITATION FOR THE NOVEMBER-MARCH PERIOD HAS BEEN ABOUT 70% OF NORMAL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Average	Average
Baker Valley	Average	Fair
Big Creek	Average	Fair
Clover Cr. (nr. N. Powder)	Fair	Fair
Cove	Average	Fair
Durkee	Average	Average
Eagle Valley	Average	Average
Elgin	Fair	Fair
Enterprise-Joseph	Average	Average
Hereford-Bridgeport	Average	Average
Imnaha River	Average	Average
LaGrande-Island City	Fair	Poor
Lostine-Wallowa	Average	Average
No. Powder River-Wolf Creek	Average	Fair
Pine Valley	Average	Average
Powder River-Elk Creek	Average	Fair
Summerville	Fair	Poor
Sumpter Valley	Average	Fair
Union-Hot Lake	Fair	Fair
Unity	Average	Fair



WATERSHED LOCATION

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year      Average <sup>i</sup>
Bear near Wallowa	48	73	April-Sept.	66
Burnt near Hereford	17.2	51	April-July	34
	17.4	50	April-Sept.	35
Catherine near Union	44	69	April-Sept.	64
Eagle Creek above Skull Creek	160	96	April-July	168 <sup>m</sup>
	175	96	April-Sept.	182 <sup>m</sup>
Grande Ronde at La Grande	81	47	April-July	172
	84	48	April-Sept.	175
Hurricane near Joseph	39	84	April-Sept.	47
Imnaha at Imnaha	254	83	April-Sept.	307
Lostine near Lostine	95	82	April-Sept.	125
Powder near Sumpter	32	58	April-July	55
	33	59	April-Sept.	56
Wallowa, East Fork near Joseph <sup>d</sup>	10.0	105	April-July	9.5
	12.6	105	April-Sept.	12.0

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Phillips Lake	73.5	50.1	67.2	- -
Thief Valley	17.4	17.4	17.4	- -
Unity	25.2	16.7	20.0	17.1
Wallowa Lake	37.5	15.1	20.6	23.2

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Burnt River	4	60	65
Grande Ronde River above La Grande	4	35	35
Powder River	5	60	75
Wallowa, Imnaha, Catherine Creek	6	60	80

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Burnt, Powder	2	57	82
Grande Ronde, Catherine Creek, Imnaha River	2	93	100

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.





# WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

Area 3

OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

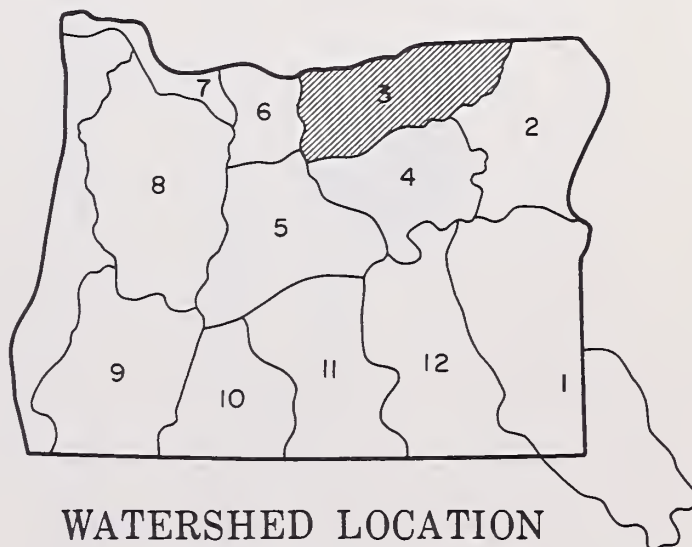
## GENERAL OUTLOOK

WATER SUPPLIES WILL GENERALLY BE MUCH BELOW AVERAGE. USERS WITH ACCESS TO STORED SUPPLIES WILL EXPERIENCE BELOW AVERAGE CONDITIONS. RESERVOIR STORAGE IS ABOUT AVERAGE AT COLD SPRINGS AND HALF OF NORMAL AT MCKAY. MCKAY WILL NOT FILL. SOILS BENEATH THE SNOWPACK CONTAIN THE USUAL AMOUNT OF MOISTURE FOR APRIL 1. THE SNOW COVER IS 40 TO 55% OF NORMAL. THIS IS A RESULT OF THE DRY WINTER JUST EXPERIENCED WHERE PRECIPITATION WAS ONLY THREE-FOURTHS OF THE NORMAL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, Nor. Fork	Fair	Fair
Walla Walla River, So. Fork	Fair	Fair
Walla Walla River, Main	Fair	Fair
Walla Walla River, Little	Fair	Fair
Couse Creek	Fair	Fair
Dry Creek	Fair	Fair
Pine Creek	Fair	Fair
Umatilla River, Main	Fair	Poor
Wildhorse Creek	Fair	Poor
Umatilla R. (Cold Springs Reservoir)	Average	Fair
Umatilla R. (McKay Res.)	Average	Fair
McKay Creek	Fair	Fair
Birch Creek	Fair	Fair
Butter Creek	Fair	Fair
Willow Creek	Fair	Fair
Rhea Creek	Fair	Fair
Rock Creek (John Day Tributary)	Fair	Fair



WATERSHED LOCATION

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
Birch Creek at Rieth	11.0	60	April-July		18.4
Butter Creek near Pine City	5.1	60	April-July		8.6
McKay near Pilot Rock	16.8	60	April-Sept.		28
Umatilla near Gibbon	37	50	April-July		74
	40	50	April-Sept.		80
Umatilla at Pendleton	90	60	April-July		150
	93	60	April-Sept.		155
Walla Walla, South Fork near Milton	42	78	April-July		54
	54	80	April-Sept.		67

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	May 4	May 22

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cold Springs	50.0	47.2	43.4	48.8
McKay	73.8	28.0	63.9	47.1

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Umatilla, Walla Walla, McKay Creek	2	100	94

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
McKay Creek	3	35	40
Umatilla River	3	35	45
Walla Walla River	2	40	55

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co., or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS

OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

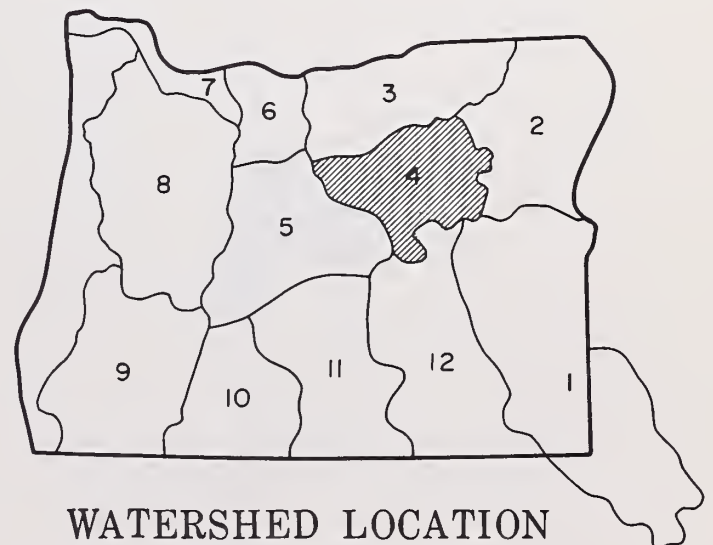
## GENERAL OUTLOOK

WATER SUPPLIES WILL GENERALLY BE MUCH BELOW AVERAGE IN THE JOHN DAY BASIN. THE SNOW COVER IS 60 TO 75% OF AVERAGE. SOILS BENEATH THE SNOWPACK ARE DRIER THAN USUAL. PRECIPITATION FOR THE NOVEMBER-MARCH PERIOD WAS ONLY 70% OF NORMAL. AS A RESULT OF THESE CONDITIONS STREAMFLOW WILL BE 60 TO 75% OF AVERAGE THIS SPRING AND SUMMER.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Average	Fair
Beech Creek-Fox-Long Cr.	Average	Fair
Bridge-Mountain Creeks	Average	Fair
Camas Creek	Average	Fair
Cherry Creek	Average	Fair
Indian-Pine Creeks	Average	Fair
John Day River, Main Fork	Average	Fair
John Day River, Mid. Fork	Average	Fair
John Day River, N. Fork	Average	Fair
John Day River, So. Fork	Average	Fair
Monument-Kimberly	Average	Fair
Strawberry Creek	Average	Fair



WATERSHED LOCATION

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Camas Creek near Ukiah	26	69	April-July		38
	26	68	April-Sept.		39
John Day at Prairie City	29	69	April-July		42
	33	72	April-Sept.		46
John Day, Middle Fork at Ritter	70	63	April-July		112
	73	63	April-Sept.		116
John Day, North Fork at Monument	330	58	April-July		568
	343	59	April-Sept.		583
Strawberry near Prairie City	5.9	77	April-July		7.7
	6.2	75	April-Sept.		8.4

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
John Day abv. Dayville	2	69	83
John Day, North Fork	2	79	95

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
John Day, North Fork	7	55	60
John Day abv. Dayville	5	75	75

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

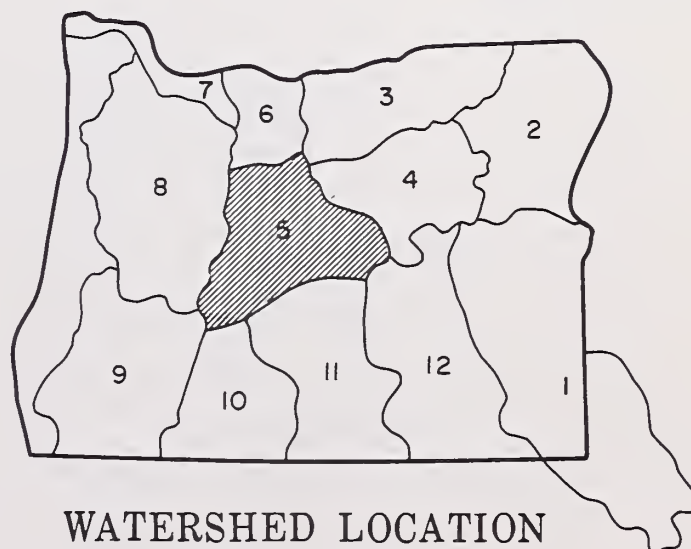
## GENERAL OUTLOOK

WATER SUPPLIES GENERALLY WILL BE CLOSE TO AVERAGE. ALTHOUGH THE SNOW COVER IS MUCH BELOW NORMAL, RESERVOIRS ARE FULL OR NEARLY FULL WITH THE EXCEPTION OF OCHOCO. USERS DEPENDENT ON DIRECT STREAMFLOW WILL HAVE MUCH BELOW AVERAGE SUPPLIES. PRECIPITATION FOR THE WINTER PERIOD NOVEMBER-MARCH HAS BEEN 75% OF NORMAL. SOILS BENEATH THE SNOWPACK ARE DRIER THAN USUAL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation Dist.	Excellent	Average
Bear Creek	Average	Fair
Beaver Creek	Average	Fair
Camp Creek	Average	Fair
Central Ore. Irrig. Dist.	Average	Average
Crooked River	Fair	Fair
Deschutes River	Average	Average
Hay-Trout Creek	Fair	Fair
Lone Pine Irrig. Dist.	Average	Average
Mill Creek	Average	Fair
North Unit Irrig. Dist.	Average	Average
Ochoco Creek	Fair	Fair
Sisters Irrigation Dist.	Average	Fair
Snow Creek Irrig. Dist.	Average	Fair
Squaw Creek Irrigation Dist.	Average	Fair
Swalley Ditch	Excellent	Excellent
Tumalo Project	Average	Fair
Walker Basin Irrig. Dist.	Excellent	Average



WATERSHED LOCATION

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Beaver Creek near Paulina	15.0	72	April-July		20
	15.0	72	April-Sept.		20
Crane Prairie Reservoir Total Inflow	60	73	April-July		83
	91	72	April-Sept.		126
Crescent at Crescent Lake	16	72	April-July		22
	20	72	April-Sept.		28
Crooked near Post	74	75	April-July		99
	76	75	April-Sept.		101
Deschutes at Benham Falls <sup>d</sup>	333	85	April-July		393
	526	88	April-Sept.		596
Deschutes below Snow Creek	52	79	April-Sept.		66
Deschutes, Little near LaPine <sup>d</sup>	48	58	April-July		83
	51	53	April-Sept.		95
Ochoco Reservoir net Inflow	12.0	50	April-Sept.		23
Odell near Crescent	22	75	April-Sept.		30
Squaw near Sisters	39	77	April-Sept.		51
Tumalo near Bend <sup>d</sup>	37	76	April-Sept.		49

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	*	July 15
Crooked R. near Post	100	May 20	June 1
Deschutes at Bend	1500	Sept. 9	July 1
Little Deschutes near La Pine	400	*	June 7
	200	May 28	July 8
*Will not reach this level.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Crane Prairie	55.3	55.9	59.2	47.6
Crescent Lake	86.9	87.5	83.2	49.9
Ochoco	47.5	28.3	46.3	33.2
Prineville	153.0	131.3	137.0	115.8
Wickiup	200.0	200.3	196.4	194.4

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Crooked R., Upper Deschutes River	2	76	84

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Crooked, Ochoco	4	75	75
Deschutes abv. Wickiup	3	45	65
Little Deschutes	4	50	60
Tumalo & Squaw Crs.	3	40	55

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co., or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

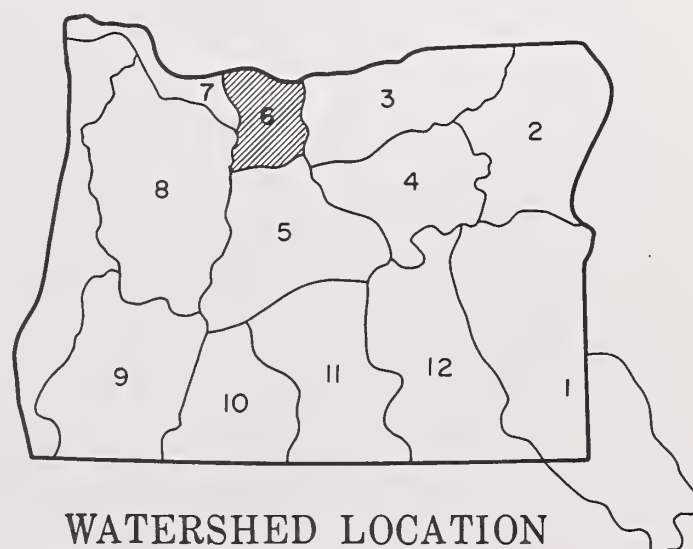
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE MUCH BELOW AVERAGE. THE SNOW COVER IS VERY POOR, ONLY 25 TO 45% OF NORMAL. IT IS ALMOST AS LOW AS 1968 WHICH WAS ONE OF THE LOWEST ON RECORD. PRECIPITATION FOR THE WINTER PERIOD NOVEMBER THROUGH MARCH HAS ONLY BEEN 60% OF AVERAGE. SOILS BENEATH THE SNOWPACK CONTAIN THE USUAL AMOUNT OF MOISTURE AND THIS CONDITION SHOULD NOT DETRACT FROM THE RUNOFF. STREAMFLOW WILL BE MUCH BELOW NORMAL, ESPECIALLY DURING THE LATE SEASON.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek)	Average	Fair
Badger Creek	Fair	Poor
Dee Irrigation Dist.	Average	Fair
East Fork Irrig. Dist.	Average	Fair
Farmers Irrigation Dist.	Average	Fair
Hood River Irrig. Dist.	Average	Fair
Juniper Flat	Average	Fair
Middle Fork Irrig. Dist.	Average	Fair
Mile Creeks	Fair	Poor
Mill Creek	Fair	Poor
Mount Hood Irrig. Dist.	Average	Fair
Rock-Gate-Threemile Crs.	Fair	Poor
Tygh Creek	Fair	Poor
White River	Average	Fair



## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Hood River near Tucker Bridge	185	65	April-July		282
	228	68	April-Sept.		336
Hood, West Fork near Dee	97	69	April-July		140
	112	70	April-Sept.		161
White below Tygh Valley	58	45	April-July		128
	72	50	April-Sept.		144

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	*28	July 15-31	**39
*Average cfs forecast to flow for this two-week period.			
**Average cfs for period of record.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Clear Lake (Wasco)	11.9	7.2	10.6	4.0

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Hood River, Mile Creeks	1	100	--

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Hood River	6	35	45
Mile Creeks	3	55	25
White River	3	30	45

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

*as of*

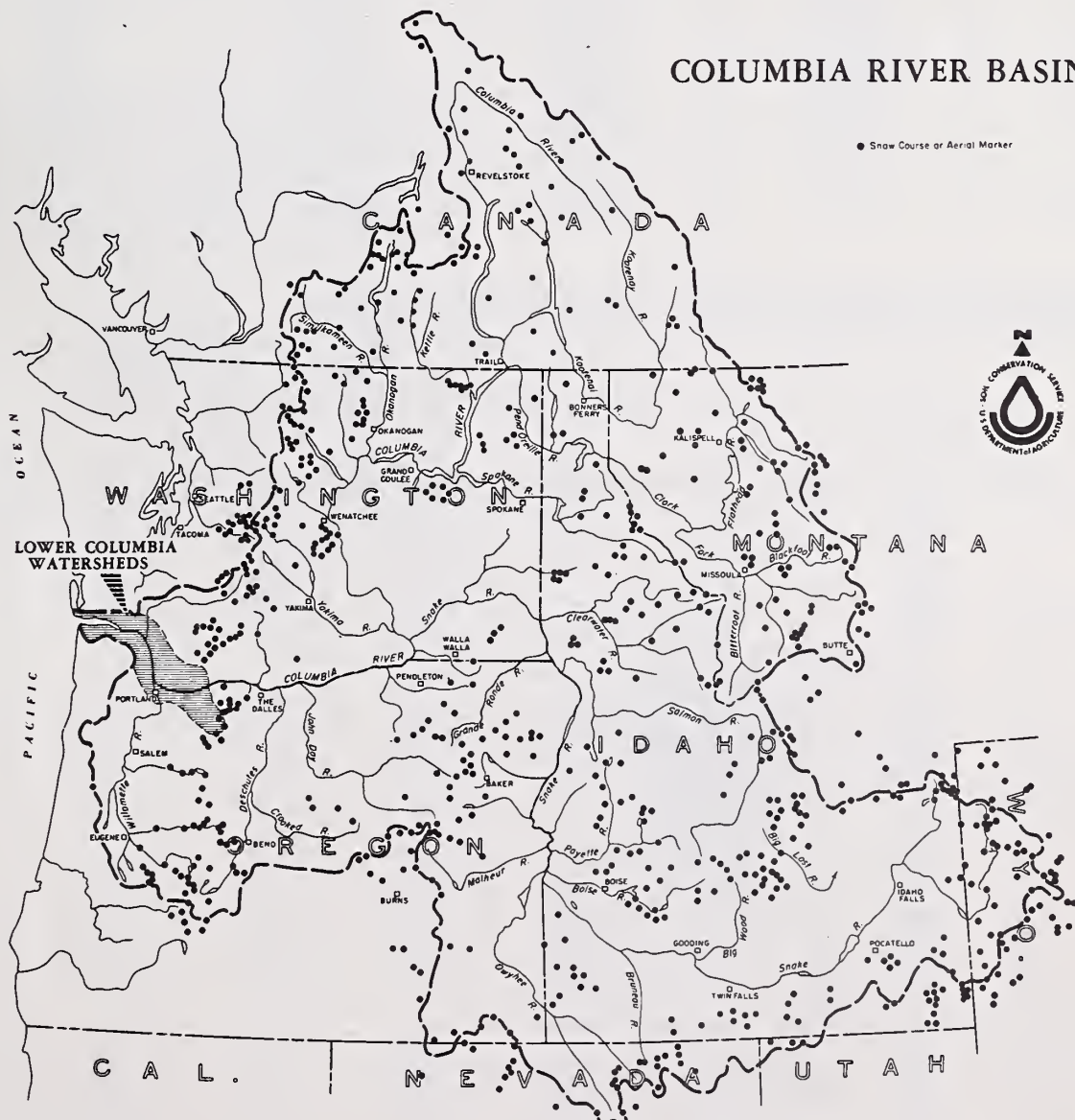
APRIL 1, 1973



U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

## GENERAL OUTLOOK

SNOW COVER OVER MOST OF THE COLUMBIA BASIN RANGES BETWEEN ABOUT FORTY TO NINETY PERCENT OF NORMAL. ON MOST SOUTHERN TRIBUTARIES TO THE SNAKE RIVER IN SOUTHERN IDAHO IT IS HIGHER, VARYING FROM ABOUT NORMAL TO ONE-THIRD ABOVE NORMAL. STORAGE IN IRRIGATION RESERVOIRS IS MORE THAN USUAL BUT IS DOWN IN POWER RESERVOIRS. SOME OF THESE ARE NOT EXPECTED TO FILL. FLOW OF THE COLUMBIA RIVER AT THE DALLES IS STILL EXPECTED TO BE ABOUT THREE-FOURTHS OF THE USUAL AMOUNT.



Report prepared by  
T. A. GEORGE AND H. M. VANCE  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

# SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>1</sup>
Sandy River	2	30	50

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>2</sup>
Columbia at The Dalles <sup>d</sup>	54,100	75	April-June	96,290	72,406
	82,800	79	April-Sept.	134,620	105,176
Sandy River near Marmot	251	70	April-July		359
	289	70	April-Sept.		413

## HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW <sup>d</sup> (1,000 A.F.)			PEAK <sup>e</sup> (1,000 c.f.s.)	DATE
	APR. - SEPT.	APR. - JUNE	MAY - JUNE		
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

## LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s.)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co.\* or USBR records.



# WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

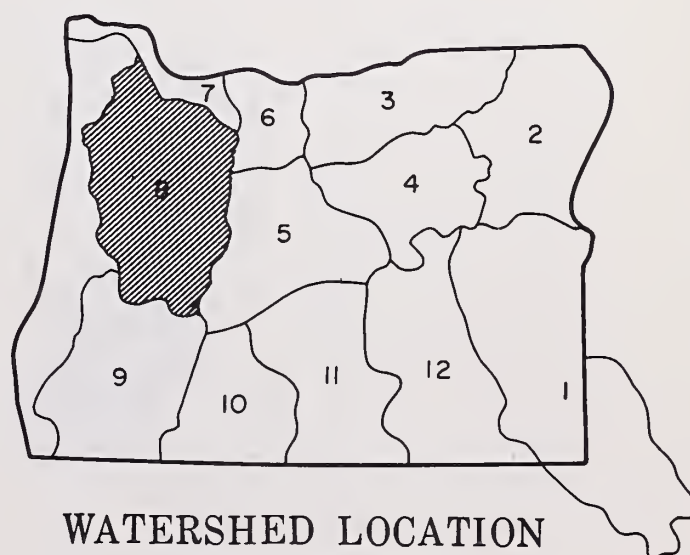
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE MUCH BELOW NORMAL. THE SNOW COVER IN THE CASCADES IS THE LOWEST SINCE 1968. IT IS 25 TO 30% OF AVERAGE ON THE CLACKAMAS AND SANTIAM DRAINAGES, AND NEAR 50% ON THE MCKENZIE AND UPPER WILLAMETTE. SOME OF THE WILLAMETTE RESERVOIRS WILL NOT FILL AS STREAMS WILL PRODUCE MUCH BELOW AVERAGE AMOUNTS DURING THE RUNOFF SEASON. PRECIPITATION FOR THE NOVEMBER-MARCH WINTER PERIOD HAS ONLY BEEN 70% OF NORMAL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Fair	Poor
Clackamas	Fair	Poor
McKenzie	Fair	Fair
Molalla	Fair	Poor
Santiam, North	Fair	Poor
Santiam, South	Fair	Poor
Willamette, Coast Fork	Fair	Fair
Willamette, Middle Fork	Fair	Fair



## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Clackamas at Estacada	480	70	April-July		689
	550	69	April-Sept.		800
Clackamas above Three Lynx	335	65	April-July		517
	422	63	April-Sept.		610
McKenzie at McKenzie Bridge	339	72	April-July		465
	460	75	April-Sept.		614
McKenzie near Vida	771	71	April-July		1087
	971	73	April-Sept.		1321
McKenzie, South Fork near Rainbow	150	68	April-July		221
	177	70	April-Sept.		252
Oak Grove Fork above Power Intake	88	71	April-July		125
	128	78	April-Sept.		163
Row near Dorena	69	65	April-July		106
	73	66	April-Sept.		110
Santiam, North at Mehama <sup>d</sup>	504	63	April-July		800
	526	64	April-Sept.		901
Santiam, South at Waterloo	375	63	April-July		596
	405	64	April-Sept.		633
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge <sup>d</sup>	471	65	April-July		725
	554	67	April-Sept.		828
Willamette, No. Fk. of Mid. Fk. near Oakridge	128	65	April-July		198
	146	67	April-Sept.		219
Willamette at Salem <sup>d</sup>	2999	64	April-July		4696
	3496	67	April-Sept.		5199

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Clackamas River	2	25	25
McKenzie River	3	35	50
Row River	2	55	55
Santiam River	4	20	30
Willamette, Mid. Fk.	5	40	55

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Blue River	85.6*	45.4	54.4	- -
Cottage Grove	30.0*	21.6	17.0	17.2
Cougar	155.2*	56.9	96.2	- -
Detroit	299.9*	110.7	196.6	170.1
Dorena	70.5*	50.7	39.3	38.6
Fall Creek	115.0*	63.4	78.2	- -
Fern Ridge	94.2*	68.2	87.0	68.8
Foster	30.0*	16.7	10.5	- -
Green Peter	270.0*	150.8	173.3	- -
Hills Creek	200.0*	85.1	137.9	120.3
Lookout Point	337.2*	65.8	237.6	195.6
Timothy Lake	61.7	55.5	59.5	49.4
*Multiple purpose reservoir-space reserved primarily for flood runoff.				

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

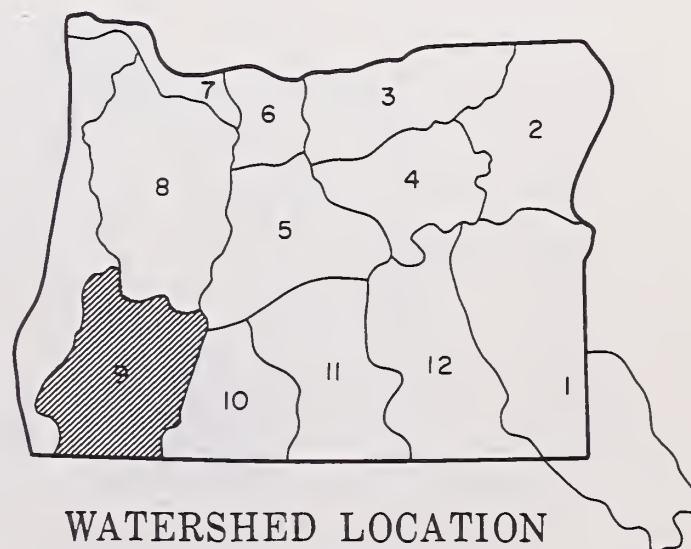
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE BELOW NORMAL THIS COMING SPRING AND SUMMER. THE MOUNTAIN SNOWPACK IS 65 TO 75% OF AVERAGE EXCEPT ON THE NORTH UMPQUA WHERE IT IS ONLY 45% OF NORMAL. PRECIPITATION DURING THE NOVEMBER-MARCH WINTER PERIOD HAS BEEN 66% OF AVERAGE. RESERVOIR STORAGE IS NEARLY NORMAL FOR THIS TIME OF YEAR AND WILL PROVIDE GOOD SUPPLIES TO USERS WITH ACCESS. STREAMFLOW WILL BE DEFICIENT BECAUSE OF THE POOR SNOWPACK.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Average	Fair
Applegate River, Big	Average	Fair
Applegate River, Little	Average	Fair
Ashland Creek	Average	Fair
Butte Creek, Big	Average	Fair
Butte Creek, Little	Average	Fair
Cow Creek	Average	Fair
Deer Creek	Average	Fair
Elk Creek	Average	Fair
Emigrant Creek (abv. res.)	Average	Fair
Evans Creek	Average	Fair
Gold Hill Irrigation Dist.	Average	Average
Grants Pass Irrig. Dist.	Average	Average
Grave Creek	Average	Fair
Illinois River, East Fork	Average	Fair
Illinois River, West Fork	Average	Fair
Jump-off-Joe Creek	Average	Fair
Neil Creek	Average	Fair
Red Blanket Creek	Average	Fair
Rogue River	Average	Fair
Sucker Creek	Average	Fair
Table Rock Irrig. Dist.	Average	Fair
Thompson Creek	Average	Average
Wagner Creek	Average	Average
Williams Creek	Average	Fair



WATERSHED LOCATION

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year
Applegate near Copper	86	61	April-Sept.	140
Clearwater above Trap Creek <sup>d</sup>	73	100	April-Sept.	73
Fourmile Lake net Inflow	3.6	90	April-Sept.	4.1
Hyatt Reservoir net Inflow <sup>d</sup>	2.5	50	April-July	5.2
Illinois River near Kerby	184	90	April-July	205
	190	90	April-Sept.	211
Little Butte, N. Fk. at Fish Lk. nr. Lake Cr. <sup>d</sup>	9.0	63	April-Sept.	14.4
Little Butte, So. Fk. near Lake Creek	26	74	April-July	33
Rogue above Prospect	193	72	April-July	269
	239	73	April-Sept.	326
Rogue, South Fork near Prospect <sup>d</sup>	48	77	April-July	62
	55	75	April-Sept.	74
Rogue at Raygold near Central Point	564	72	April-July	781
	687	73	April-Sept.	941
Rogue at Grants Pass	736	78	April-Sept.	940
Umpqua, No. blw. Lemolo Res. nr Toketee Falls <sup>d</sup>	132	75	April-Sept.	176

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	100	May 1	May 27
Rogue at Raygold	1200	July 8	Aug. 7
	*1220	July 1	
	* 950	Aug. 15	
*Average daily cfs forecast to flow on this date.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Emigrant Lake	39.0	31.4	38.8	35.0*
Fish Lake	8.0	7.6	8.0	6.0
Fourmile Lake	16.1	<sup>b</sup>	14.4	10.6
Howard Prairie	60.0	44.0	60.6	32.7
Hyatt Prairie	16.1	10.2	15.5	11.9
*Average for years of record (in base period) after reconstruction.				

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Applegate	3	80	65
Bear Creek	2	80	65
Butte Creek	4	85	75
Illinois River	3	140	65
North Umpqua	3	40	45
Rogue River	6	50	70

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67, adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.





# WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

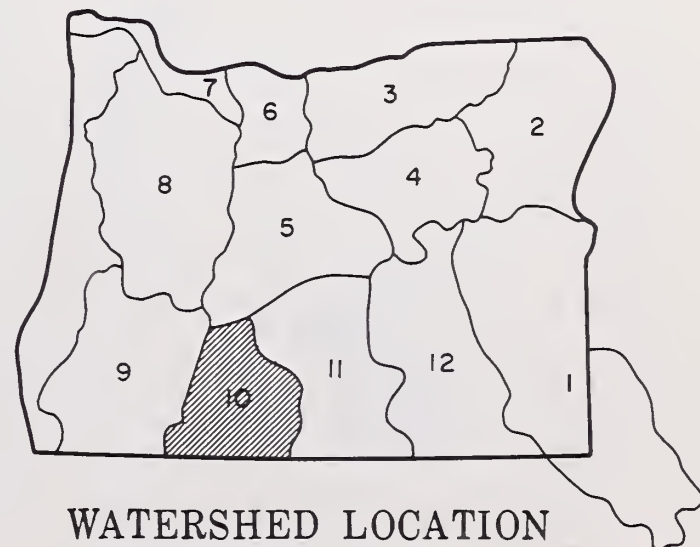
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE AVERAGE TO BELOW AVERAGE. THE MOUNTAIN SNOW-PACK IS ABOUT HALF OF NORMAL EXCEPT FOR THE AREAS OF CALIFORNIA THAT DRAIN INTO OREGON ON THE UPPER LOST RIVER WHERE THE SNOW COVER IS ABOUT AVERAGE. RESERVOIR STORAGE IS EXCELLENT FOR THIS TIME OF YEAR, AND USERS WITH ACCESS WILL HAVE ADEQUATE SUPPLIES. STREAMFLOW WILL BE MUCH BELOW NORMAL IN MOST OF KLAMATH COUNTY, HOWEVER, AND WATER USERS DEPENDENT UPON DIRECT DIVERSION WILL EXPERIENCE SHORTAGES. PRECIPITATION THIS PAST WINTER WAS 77% OF NORMAL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Fair	Fair
Lost River (Clear Lake)	Average	Average
Lost River (Gerber)	Average	Average
Lost River (Willow Res.)	Average	Average
Sprague River	Fair	Poor
Upper Klamath Lake	Average	Average
Williamson River	Fair	Poor



## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Clear Lake Reservoir Inflow <sup>k</sup>	36	96	April-July		38
	38	96	April-Sept.		40
Gerber Reservoir Inflow <sup>k</sup>	13.3	70	April-July		19.1
	14.6	75	April-Sept.		19.5
Sprague near Chiloquin	133	50	April-July		263
	162	55	April-Sept.		296
Upper Klamath Lake net Inflow <sup>k</sup>	273	54	April-July		511
	400	64	April-Sept.		619
Williamson below Sprague River	281	59	April-Sept.		475

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>

Upper Klamath	1	71	83
---------------	---	----	----

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Clear Lake	440.2	323.0	410.9	250.4
Gerber	94.0	68.6	93.0	56.6
Upper Klamath Lake	584.0	495.2	487.3	467.4

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Lost River	3	110	115
Sprague River	3	95	65
Upper Klamath	8	70	60
Williamson River	3	60	50

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

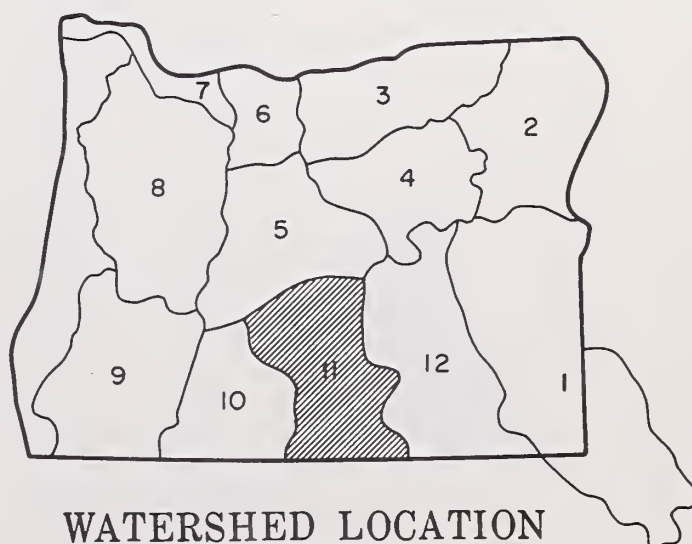
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE AVERAGE TO BELOW AVERAGE THIS SUMMER. THE SNOW COVER IS NEAR NORMAL IN MOST OF THE COUNTY EXCEPT ALONG THE WINTER RIM AND ON NORTH TO SILVER LAKE WHERE IT IS VERY POOR. PRECIPITATION THIS PAST WINTER WAS ONLY 70% OF NORMAL. SOILS BENEATH THE SNOWPACK ARE DRIER THAN USUAL EXCEPT FOR THE WARNER MOUNTAINS WHERE THE CONDITION IS NEAR AVERAGE. STREAMFLOW THIS SUMMER WILL BE CLOSE TO NORMAL WHERE THE SNOW COVER IS GOOD AND DEFICIENT ELSEWHERE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Fair	Poor
Crooked Creek	Fair	Fair
Deep Creek	Average	Average
Dry Creek	Fair	Fair
East Side Goose Lake	Fair	Fair
Guano Lake	Average	Fair
Honey Creek	Average	Fair
Lakeview Water Users Assn.	Average	Average
Rock Creek (Hart Mountain)	Fair	Fair
Silver-Buck Creeks	Poor	Poor
Summer Lake	Fair	Poor
Thomas Creek	Fair	Fair
Twentymile Creek	Average	Average
Warner Lakes	Average	Average



WATERSHED LOCATION

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Chewaucan near Paisley	47	60	April-July		79
	50	59	April-Sept.		84
Deep above Adel	64	99	April-July		64
	66	101	April-Sept.		65
Drews Reservoir Inflow	21	69	April-July		30
Honey near Plush	11.3	71	April-July		15.9
	12.3	77	April-Sept.		16.1
Silver Creek near Silver Lake	9.3	50	April-July		18.6
	10.0	50	April-Sept.		20
Twentymile near Adel	18.8	112	April-July		16.8
	20.3	118	April-Sept.		17.2

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <i>i</i>
Chewaucan, Silver Creek, Drew Creek	1	71	83
Honey, Deep, 20-Mi. Cr.	1	98	103

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <i>i</i>
Cottonwood	8.7	3.4	6.5	4.4*
Drews	63.0	49.3	63.0	44.6

\*Average for years of record (in base period) after reconstruction.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <i>i</i>
Chewaucan River	3	95	70
Deep Creek	3	100	105
Drew Creek	3	930	90
Honey Creek	3	100	90
Silver Creek	3	95	15
Twentymile Creek	3	120	110

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

*as of*

APRIL 1, 1973

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

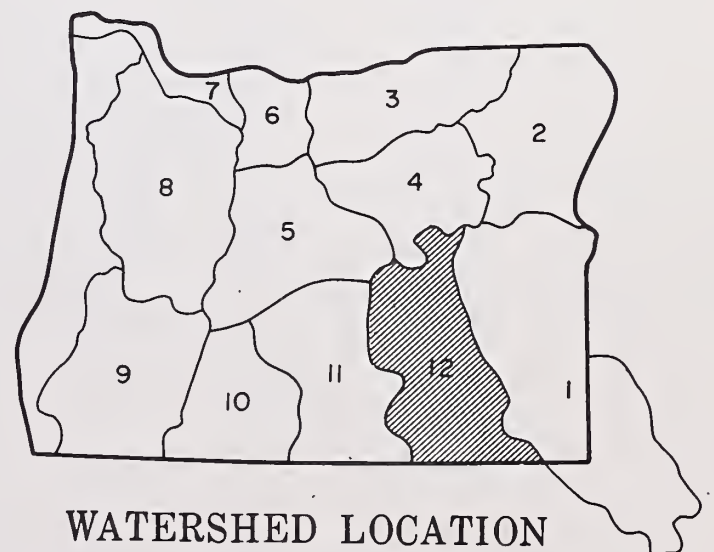
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE MUCH ABOVE AVERAGE IN THE TROUT CREEK AREA, AVERAGE IN THE STEENS, AND BELOW AVERAGE IN THE NORTH PART OF HARNEY COUNTY. THE SNOW COVER IS ABOUT TWICE THE NORMAL AMOUNT IN THE TROUT CREEK WATERSHED. THE STEENS MOUNTAIN SNOWPACK IS A LITTLE ABOVE AVERAGE. THE SNOW COVER ELSEWHERE IS BELOW NORMAL. STREAMFLOW THIS NEXT SUMMER WILL GENERALLY FOLLOW THIS PATTERN. PRECIPITATION THIS PAST WINTER WAS 75% OF NORMAL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Average	Fair
Cow Creek	Fair	Fair
Donner und Blitzen River	Average	Average
Mill-Coffeepot Creeks	Fair	Fair
Rattlesnake Creek	Fair	Fair
Silver Creek	Fair	Fair
Silvies River	Fair	Fair
Soldier-Prather Creek	Fair	Fair
Trout Creek	Excellent	Average
Whitehorse Creek	Excellent	Average



WATERSHED LOCATION

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Donner und Blitzen near Frenchglen	55	111	April-July		51
	60	109	April-Sept.		55
Silver near Riley	9.0	50	April-July		17.9
Silvies near Burns	40	49	April-July		81
	43	52	April-Sept.		83
Trout near Denio	10.2	144	April-July		7.1
	10.6	142	April-Sept.		7.5

# SOIL MOISTURE

# SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>			Last Year	Average <sup>i</sup>
Silvies River, Silver Cr.	2	73	84	Donner und Blitzen R.	4	85	125
Trout Cr., Donner und Blitzen River	2	112	122	Silver Creek	3	75	65
				Silvies River	4	80	80
				Trout Creek	3	45	215

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted dverage. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# BASIC DATA SUPPLEMENT 1

APRIL 1, 1973

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)	3/28	18	6.7	9.5	4.0
Battle Creek <sup>e</sup> (Ida.)	3/30	3	0.8	0.0	2.0
Bear Creek <sup>e</sup> (Nev.)	3/30	73	22.8	25.1	19.1
Big Bend (Nev.)	3/23	33	8.4	10.3	8.1
Blue Mountain Springs	3/29	35	11.8	19.0	15.5
Blue Mtn. Springs Pillow*	3/29		10.7	11.9	- -
Buck Pasture <sup>e</sup>	4/3	0	0.0	0.0	2.2
Buckskin, Lower (Nev.)	3/27	28	8.3	3.9	7.0
Buckskin, Upper (Nev.)	3/27	37	12.0	13.3	9.2
Bull Basin <sup>e</sup> (Ida.)	3/30	0	0.0	T	0.4
Bully Creek <sup>e</sup>	4/3	0	0.0	0.0	0.7
Call Meadow <sup>e</sup>	4/3	4	1.4	0.0	3.0
Columbia Basin <sup>e</sup> (Nev.)	3/27	36	11.9	3.4	- -
Cottonwood-Indian <sup>e</sup>	4/3	0	0.0	0.0	0.1
Crane Prairie	3/29	17	6.7	8.7	8.6
Disaster Peak (Nev.)	3/26	35	12.1	13.5	9.5
Eldorado Pass	3/29	0	0.0	0.0	0.6
Fawn Creek <sup>e</sup> (Nev.)	3/24	40	13.2	0.0	- -
Fish Creek	4/3	73	26.3	30.7	25.0
Fish Creek Pillow*	4/3		26.7	43.3	- -
Fish Creek <sup>e</sup>	4/3	69	24.1	34.4	25.0
Flag Prairie <sup>e</sup>	4/3	0	0.0	0.0	1.8
Fox Creek (Nev.)	3/30	39	11.7	8.2	8.9
Fry Canyon (Nev.)	3/21	25	8.5	2.6	6.3
Gold Creek (Nev.)	3/23	19	5.3	3.7	4.7
Granite Peak (Nev.)	3/28	52	15.8	18.1	12.6
Hyde Pasture <sup>e</sup> (Ida.)	3/30	3	0.8	3.8	2.0
Jack Creek, Lower (Nev.)	3/28	14	4.0	0.0	2.8
Jack Creek, Upper (Nev.)	3/28	36	11.7	9.7	9.8
Jack Peak (Nev.)	3/28	76	25.4	33.9	25.7
Lake Creek R.S.	3/29	19	6.6	9.4	9.3
Laurel Draw (Nev.)	3/29	27	8.7	6.0	7.2
Logan Valley <sup>e</sup>	4/3	9	3.1	7.3	5.4
Lookout Butte <sup>e</sup>	3/30	0	0.0	0.0	T
Louse Canyon <sup>e</sup>	3/30	12	3.4	T	1.6
Martin Creek (Nev.)	3/27	34	9.3	0.1	8.2
Merritt Mountain <sup>e</sup> (Nev.)	3/24	18	5.4	5.2	- -
Midas (Nev.)	3/29	17	4.9	0.1	1.6
Mud Flat (Ida.)	3/28	12	4.8	3.0	4.2
Oregon Canyon <sup>e</sup>	4/3	30	10.5	1.1	4.4
Quinn Ridge <sup>e</sup> (Nev.)	3/29	0	0.0	0.0	0.7
Red Canyon (Ida.)	3/30	20	6.8	6.8	4.4
Rock Spring	3/27	10	4.0	1.7	4.3
Rodeo Flat (Nev.)	3/21	23	7.7	3.0	5.8
76 Creek (Nev.)	3/30	37	12.1	16.5	10.9
Silver City (Ida.)	4/3	33	10.5	26.0	14.4
Silvies	4/3	41	13.9	19.4	12.3
Silvies Pillow*	4/3		16.8	34.1	- -
Silvies <sup>e</sup>	4/3	34	11.9	16.6	- -
South Mountain #2 (Ida.)	3/29	29	9.4	19.0	10.9
Stag Mountain <sup>e</sup> (Nev.)	3/29	28	8.7	0.0	- -
Stinking Water	3/30	0	0.0	0.0	0.3
Succor Creek <sup>e</sup> (Ida.)	3/30	10	3.4	4.6	4.9
Taylor Canyon (Nev.)	3/27	20	7.0	0.0	2.9
Toe Jam <sup>e</sup> (Nev.)	3/24	43	14.2	3.4	- -
Tremewan Ranch (Nev.)	3/23	0	0.0	0.0	0.0
Triangle <sup>e</sup> (Ida.)	3/30	0	0.0	0.0	0.4
Trout Creek <sup>e</sup>	4/3	45	15.7	4.6	7.9
"V" Lake <sup>e</sup>	4/3	34	11.9	8.4	3.8
Vaught Ranch <sup>e</sup> (Ida.)	3/30	3	0.8	0.0	- -
War Eagle <sup>e</sup> (Ida.)	3/30	68	25.1	31.7	- -
*Manometer Reading.					

\*Manometer Reading.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1	3/28	81	27.4	46.2	37.2 <sup>h</sup>
Aneroid Lake #2	3/27	68	24.4	39.4	32.9
Anthony Lake	3/28	59	18.8	37.8	27.7
Bald Mountain <sup>e</sup> (Ore.)	4/2	51	16.8	33.6	24.6 <sup>m</sup>
Beaver Reservoir	3/27	19	5.9	16.8	11.4
Beaver Reservoir (Alt.)	3/27	24	6.7	19.8	- -
Big Sheep <sup>e</sup>	4/2	63	20.8	23.3	23.0 <sup>m</sup>
Blue Mtn. Summit	3/30	18	5.3	8.0	7.4
Bourne	3/29	29	9.6	17.5	15.0
County Line	3/30	4	1.5	1.9	5.6
Dooley Mountain	3/29	17	5.6	7.7	7.6
Eilertson Meadows	3/28	22	7.1	10.7	11.3
Eldorado Pass	3/29	0	0.0	0.0	0.6 <sup>h</sup>
Gold Center	3/29	26	8.5	12.5	12.3
Goodrich Lake	3/30	74	28.6	52.1	36.2
Intake House	3/28	20	5.6	10.0	- -
Little Alps	3/28	31	8.2	24.4	14.7 <sup>h</sup>
Little Antone	3/29	T	T	4.1	- -
Lucky Strike	3/29	29	8.2	19.0	13.6 <sup>h</sup>
Lucky Strike Pillow*	3/29		5.1	- -	- -
Meacham	3/27	7	2.2	12.6	9.6
Mirror Lake <sup>e</sup>	4/2	135	52.6	- -	66.9 <sup>m</sup>
Moss Spring	4/2	52	17.2	35.6	24.1
Power Plant	3/28	0	0.0	0.0	- -
Schneider Meadows	3/26	73	28.1	33.4	29.9
Schoolmarm	3/30	3	1.0	0.5	4.2
Standley <sup>e</sup>	4/2	74	28.9	47.0	30.2 <sup>m</sup>
Taylor Green	4/2	37	12.2	23.2	16.6
Tipton	4/2	21	7.6	10.1	9.6
Tipton Snow Pillow*	4/2		10.8	- -	- -
Tollgate	3/29	39	15.0	33.6	26.5
TV Ridge <sup>e</sup>	4/2	51	16.4	25.2	- -
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	3/30	18	7.0	12.1	11.3
Arbuckle Mtn. Pillow*	3/30		18.2	36.0	- -
Battle Mountain Summit	3/27	0	0.0	T	1.3 <sup>m</sup>
Blue Mountain Camp	3/29	12	6.6	22.2	14.0 <sup>h</sup>
Butte Creek Summit	c				
Emigrant Springs	3/27	0	0.0	T	3.1
High Ridge Pillow*	b			39.6	- -
Lucky Strike	3/29	29	8.2	19.0	13.6 <sup>h</sup>
Lucky Strike Pillow*	3/29		5.1	- -	- -
Meacham	3/27	7	2.2	12.6	9.6
Tollgate	3/29	39	15.0	33.6	26.5
Weston Mountain	3/29	0	0.0	0.0	0.1 <sup>m</sup>



# BASIC DATA SUPPLEMENT 1

APRIL 1, 1973

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

UPPER JOHN DAY WATERSHEDS					
Anthony Lake	3/28	59	18.8	37.8	27.7
Arbuckle Mountain	3/30	18	7.0	12.1	11.3
Arbuckle Mtn. Pillow*	3/30		18.2	36.0	- -
Battle Mountain Summit	3/27	0	0.0	T	1.3 <sup>m</sup>
Beech Creek Summit	3/30	7	3.8	2.2	3.6
Blue Mountain Springs	3/29	35	11.8	19.0	15.5
Blue Mtn. Springs Pillow*	3/29		10.7	11.9	- -
Blue Mountain Summit	3/30	18	5.3	8.0	7.4
Butte Creek Summit	c				
Derr	3/27	22	7.5	9.3	9.5
Gold Center	3/29	26	8.5	12.5	12.3
Indian Creek Butte	4/3	63	22.1	25.2	23.6 <sup>m</sup>
Izee Summit	3/28	23	6.2	4.7	7.5
Lucky Strike	3/29	29	8.2	19.0	13.6 <sup>h</sup>
Lucky Strike Pillow*	3/29		5.1	- -	- -
Marks Creek	3/27	0	0.0	0.0	1.7
Ochoco Meadows	3/31	19	6.4	8.0	9.3
Olive Lake <sup>e</sup>	3/29	30	9.9	21.0	21.7
Schoolmarm	3/30	3	1.0	0.5	4.2
Snow Mountain	3/29	33	10.6	15.2	12.9
Snow Mtn. Pillow**	3/26		8.3	14.3	- -
Starr Ridge	3/28	8	2.8	5.0	4.1
Tipton	4/2	21	7.6	10.1	9.6
Tipton Snow Pillow*	4/2		10.8	- -	- -
Williams Ranch	3/30	0	0.0	0.0	- -

### UPPER DESCHUTES, CROOKED WATERSHEDS

Bald Peter	3/30	46	17.8	- -	- -
Caldwell Ranch	3/29	10	4.1	1.5	9.1
Cascade Summit	3/30	51	18.1	37.4	30.7
Chemult	4/2	13	5.1	3.6	8.5
Chemult Alternate	4/2	16	6.4	- -	- -
Derr	3/27	22	7.5	9.3	9.5
Hogg Pass	3/30	49	17.8	63.3	43.4
Hungry Flat	3/28	0	0.0	0.0	3.1
Irish-Taylor Pillow**	4/2		25.9	63.6	39.0
Marks Creek	3/27	0	0.0	0.0	1.7
New Crescent Lake	3/28	16	5.7	9.2	14.5
New Dutchman Flat #2	3/28	76	32.8	80.2	51.9
Ochoco Meadows	3/31	19	6.4	8.0	9.3
Racing Creek	3/30	21	6.8	- -	- -
Snow Mountain	3/29	33	10.6	15.2	12.9
Snow Mtn. Pillow**	3/26		8.3	14.3	- -
Tamarack	3/26	4	1.5	0.0	4.1 <sup>h</sup>
Tangent	3/28	32	12.9	24.4	22.0
Three Creek Butte	3/27	5	2.3	7.8	9.6 <sup>h</sup>
Three Creek Meadow	3/27	23	7.6	22.6	19.0
Three Creek Mdw. Pillow**	4/2		11.1	31.5	- -
Waldo Lake	3/29	48	17.6	48.1	32.4
Willamette Pass	3/28	73	26.0	57.2	41.6
Willamette Pass Pillow**	b				

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows	3/21	11	3.9	5.5	11.4
Clear Lake	3/22	5	1.8	10.6	10.6
Clear Lake (Experimental)	3/22	20	6.3	18.8	19.2 <sup>h</sup>
Cooper Spur	3/30	12	4.7	5.8	- -
Greenpoint	3/29	16	6.4	10.9	17.5
Knebal Springs	3/21	5	1.2	3.9	7.4 <sup>h</sup>
Parkdale	3/30	0	0.0	0.0	- -
Phlox Point	3/22	84	32.8	101.4	62.5
Red Hill	3/30	57	21.2	62.3	43.7
Still Creek	3/22	28	10.0	33.8	25.0
Still Cr. Alt. #2	3/22	30	10.5	34.3	- -
Switchback	3/29	16	6.2	10.4	- -
Tilly Jane	3/17	66	20.9	48.3	45.3
Ulrich Ranch Junction	3/21	0	0.0	0.0	3.2 <sup>h</sup>
Umbrella Falls	3/29	79	30.1	113.4	- -
Upper Valley	3/30	0	0.0	0.0	- -

### WILLAMETTE WATERSHEDS

Cascade Summit	3/30	51	18.1	37.4	30.7
Champion	3/29	49	18.7	35.5	30.2
Clackamas Lake	3/30	6	1.6	16.0	12.4
Clear Lake	3/22	5	1.8	10.6	10.6
Clear Lake (Expt.)	3/22	20	6.3	18.8	19.2 <sup>h</sup>
Dead Horse Grade	3/31	25	9.1	23.5	19.8
Detroit (Town)	3/30	0	0.0	0.0	0.0
Detroit Dam	3/30	0	0.0	0.0	0.0
Golden Curry Creek	3/29	T	T	T	4.1 <sup>h</sup>
Hogg Pass	3/30	49	17.8	63.3	43.4
Lake Harriet	b				
Laurel Mountain	3/30	0	0.0	T	- -
Layng Creek	3/29	0	0.0	0.0	0.0
Lookout Point Dam	3/30	0	0.0	0.0	0.0
Lost Creek Ranch	3/31	0	0.0	0.0	1.4
Lund Park	3/29	0	0.0	0.0	0.0
Marion Forks	3/30	0	0.0	13.6	13.4 <sup>h</sup>
Marys Peak	3/30	12	4.6	9.1	14.2 <sup>m</sup>
Marys Peak (Alt.)	3/30	12	4.1	4.6	- -
McCredie Springs	3/30	0	0.0	0.0	0.0
McKenzie	3/31	67	26.4	67.4	45.3
McKenzie Bridge	3/31	0	0.0	0.0	0.0
Mill City	3/30	0	0.0	0.0	0.0
Oakridge	3/30	0	0.0	0.0	0.0
Peavine Ridge Pillow**	4/2		5.8	21.3	16.9
Phlox Point	3/22	84	32.8	101.4	62.5
Railroad Overpass	3/30	0	0.0	0.0	1.3
Saddle Mountain Pillow**	4/2		0.1	10.8	- -
Salt Creek Falls	3/30	20	5.9	18.5	17.4
Santiam Junction	3/30	15	5.2	33.6	24.3
Seine Creek Pillow**	3/30	0	0.0	0.0	- -
Still Creek	3/22	28	10.0	33.8	25.0
Still Creek Alt. #2	3/22	30	10.5	34.3	- -
Timothy Lake	4/3	17	5.1	21.2	13.2 <sup>m</sup>
Valsetz Summit	3/30	0	0.0	0.0	- -
Vida	3/31	0	0.0	0.0	0.0
Waldo Lake	3/29	48	17.6	48.1	32.4
Weaver Creek	3/29	0	0.0	0.0	0.6
White Branch Slide	3/31	0	0.0	8.5	4.9
Whitewater Bridge	3/30	0	0.0	0.0	1.8
Willamette Pass	3/28	73	26.0	57.2	41.6
Willamette Pass Pillow**	b				

\*Manometer Reading.

\*\*Telemetry Reading.



# BASIC DATA SUPPLEMENT 1

APRIL 1, 1973

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

ROGUE, UMPQUA WATERSHEDS					
Althouse	3/29	21	8.2	0.0	7.2
Althouse #2	3/29	19	7.2	0.0	-
Annie Spring	3/30	102	37.4	52.0	45.6
Beaver Dam Creek	3/30	30	9.0	8.7	12.4 <sup>m</sup>
Big Red Mountain	3/27	67	23.2	29.5	30.9
Billie Creek Divide	3/30	48	16.5	27.8	21.1
Caliban	3/28	80	26.7	37.2	-
Champion	3/29	49	18.7	35.5	30.2
Cold Springs Camp	3/28	69	25.3	48.3	33.6 <sup>h</sup>
Cold Springs Camp Pillow**	4/2		25.9	34.5	-
Deadwood Junction	3/30	21	7.4	T	8.7 <sup>h</sup>
Diamond-Crater Summit	3/27	63	22.1	48.6	37.7 <sup>h</sup>
Diamond-Crater Sum. Alt.	3/27	56	20.0	42.3	-
Diamond Lake	3/27	32	11.6	25.6	22.8
Fish Lake	3/30	28	8.4	9.6	12.8 <sup>h</sup>
Fourmile Lake	3/30	55	18.8	23.8	25.2 <sup>h</sup>
Grayback Peak	3/26	49	16.9	18.8	29.2
Howard Prairie Reservoir	3/30	19	6.7	T	7.6 <sup>h</sup>
Hyatt Prairie	3/30	18	5.6	T	7.2 <sup>h</sup>
King Mountain #1	3/30	25	6.2	T	-
King Mountain #2	3/30	14	3.7	0.0	-
King Mountain #3	3/30	2	0.3	0.0	-
King Mountain #4	3/30	0	0.0	0.0	-
King Mountain #5	3/30	0	0.0	0.0	-
King Mountain #6	3/30	0	0.0	0.0	-
Little Red Mountain	3/27	46	16.3	22.9	25.3
Mt. Ashland Switchback	3/28	83	26.8	33.7	-
Mule Creek	3/30	3	0.7	0.0	-
North Umpqua	4/2	17	5.8	16.6	13.6
Page Mountain	3/29	3	0.8	0.0	4.3 <sup>h</sup>
Park Headquarters	3/29	115	47.4	82.9	58.6
Red Butte #1	3/29	28	8.9	9.5	16.2 <sup>h</sup>
Red Butte #2	3/29	15	4.9	2.1	9.3 <sup>h</sup>
Red Butte #3	3/29	3	0.7	1.2	7.5 <sup>h</sup>
Red Butte #4	3/29	0	0.0	0.4	3.4 <sup>h</sup>
Red Butte #5	3/29	0	0.0	0.0	0.0 <sup>m</sup>
Red Butte #6	3/29	0	0.0	0.0	0.0 <sup>m</sup>
Seven Lakes #2	3/21	87	31.9	70.8	42.3
Seven Mile	3/22	74	25.8	37.9	-
Silver Burn	3/30	12	3.8	7.5	12.0
Siskiyou Summit	3/29	0	0.0	0.0	2.5
Siskiyou Summit Alt. #2	3/29	T	T	0.0	-
Ski Bowl Road	3/28	62	20.0	25.7	-
South Fork Canal	3/30	1	0.3	0.0	0.4
Trap Creek	4/3	10	3.8	9.6	10.5 <sup>h</sup>
Whaleback	3/29	66	23.7	35.7	34.1

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

KLAMATH WATERSHEDS					
Annie Spring	3/30	102	37.4	52.0	45.6
Billie Creek Divide	3/30	48	16.5	27.8	21.1
Chemult	4/2	13	5.1	3.6	8.5
Chemult (Alternate)	4/2	16	6.4	-	-
Chiloquin (PP&L)	t			0.0	T
Cold Springs Camp	3/28	69	25.3	48.3	33.6 <sup>h</sup>
Cold Springs Camp Pillow**	4/2		25.9	34.5	-
Crazyman Flat <sup>e</sup>	3/29	18	5.6	4.6	10.5 <sup>m</sup>
Crowder Flat <sup>e</sup> (Calif.)	3/27	0	0.0	0.0	1.4 <sup>m</sup>
Crystal (PP&L)	3/30	9	4.7	0.0	5.4
Diamond-Crater Summit	3/27	63	22.1	48.6	37.7 <sup>h</sup>
Diamond-Crater Vum. Alt.	3/27	56	20.0	42.3	-
Diamond Lake Jct. (97)	3/27	T	T	0.0	4.8 <sup>h</sup>
Dog Hollow <sup>e</sup>	3/27	0	0.0	0.0	0.4 <sup>m</sup>
Finley Corrals <sup>e</sup>	3/29	45	14.4	13.2	15.9 <sup>m</sup>
Fort Klamath (PP&L)	3/31	2	0.5	0.0	0.7
Fourmile Lake	3/30	55	18.8	23.8	25.2 <sup>h</sup>
Gerber	4/3	0	0.0	0.0	0.7 <sup>h</sup>
Harriman (PP&L)	3/31	0	0.0	0.0	0.9 <sup>m</sup>
Hyatt Prairie Reservoir	3/30	18	5.6	T	7.2 <sup>h</sup>
Kirk (PP&L)	3/31	0	0.0	-	2.0 <sup>m</sup>
Lake of the Woods	3/30	21	5.5	8.6	10.7
Park Headquarters	3/29	115	47.4	82.9	58.6
Quartz Mountain	3/28	12	4.3	0.0	4.9
Quartz Mountain (Ext.)	3/28	12	4.3	0.0	-
Seven Lakes #2	3/21	87	31.9	70.8	42.3
Seven Mile	3/22	74	25.8	37.9	-
State Line <sup>e</sup> (Calif.)	3/27	20	6.4	0.0	8.3 <sup>m</sup>
Strawberry	3/28	23	7.0	1.9	6.0 <sup>h</sup>
Strawberry <sup>e</sup>	3/27	13	4.0	2.3	-
Summer Rim	3/28	41	13.0	18.3	18.0
Summer Rim Pillow*	3/28		10.9	19.8	-
Summer Rim <sup>e</sup>	3/29	43	13.8	13.6	-
Sycan Flat <sup>e</sup>	3/29	4	1.1	1.5	5.3 <sup>m</sup>
Taylor Butte	3/29	1	0.3	T	3.5 <sup>h</sup>

## LAKE COUNTY, GOOSE LAKE WATERSHEDS

Adin Mountain (Calif.)	4/2	41	14.1	11.4	11.5
Bald Mountain (Nev.)	3/29	16	5.2	0.0	2.5
Bear Flat Meadow <sup>e</sup>	3/29	27	8.6	7.6	10.9 <sup>m</sup>
Camas Creek	3/28	27	8.3	7.2	9.7
Cedar Pass (Calif.)	3/30	56	19.0	21.6	15.0
Colvin Creek <sup>e</sup>	3/29	12	3.7	0.0	-
Cox Flat <sup>e</sup>	3/27	20	6.4	0.0	6.7 <sup>m</sup>
Crowder Flat <sup>e</sup> (Calif.)	3/27	0	0.0	0.0	1.4 <sup>m</sup>
Dismal Swamp <sup>e</sup> (Calif.)	3/29	59	18.9	21.6	17.6 <sup>m</sup>
Finley Corrals <sup>e</sup>	3/29	45	14.4	13.2	15.9 <sup>m</sup>
Hart Mountain <sup>e</sup>	3/29	6	1.8	0.0	0.9 <sup>m</sup>
Little Bally Mtn. <sup>e</sup> (Nev.)	3/29	12	3.4	0.0	1.5 <sup>m</sup>
Mt. Bidwell (Calif.)	3/28	71	25.8	34.2	-
North Star (Calif.)	3/28	47	16.3	-	-
Patton Meadows <sup>e</sup>	3/27	49	15.7	22.1	14.5 <sup>m</sup>
Quartz Mountain	3/28	12	4.3	0.0	4.9
Quartz Mountain (Ext.)	3/28	12	4.3	0.0	-
Sherman Valley <sup>e</sup>	3/29	37	11.8	13.2	11.6 <sup>m</sup>
Silver Creek	3/30	T	T	0.0	1.2
State Line <sup>e</sup> (Calif.)	3/27	20	6.4	0.0	8.3 <sup>m</sup>
Strawberry	3/28	23	7.0	1.9	6.0 <sup>h</sup>
Strawberry <sup>e</sup>	3/27	13	4.0	2.3	-
Summer Rim	3/28	41	13.0	18.3	18.0
Summer Rim Pillow*	3/28		10.9	19.8	-
Summer Rim <sup>e</sup>	3/29	43	13.8	13.6	-
Sycan Flat <sup>e</sup>	3/29	4	1.1	1.5	5.3 <sup>m</sup>
Willow Creek <sup>e</sup>	3/29	7	2.0	0.0	3.2 <sup>m</sup>

\*Manometer reading.

\*\*Telemetry reading.

# BASIC DATA SUPPLEMENT 1

APRIL 1, 1973

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.

### HARNEY BASIN WATERSHEDS

Blue Mountain Springs	3/29	35	11.8	19.0	15.5
Blue Mtn. Springs Pillow*	3/29		10.7	11.9	- -
Buck Pasture <sup>e</sup>	4/3	0	0.0	0.0	2.2 <sup>m</sup>
Buckskin Lake <sup>e</sup>	4/3	0	0.0	0.0	0.0 <sup>m</sup>
Call Meadows <sup>e</sup>	4/3	4	1.4	0.0	3.0 <sup>m</sup>
Delintment Lake	3/29	13	4.2	4.0	6.8 <sup>h</sup>
Denio Creek <sup>e</sup>	4/3	0	0.0	0.0	0.0 <sup>m</sup>
Disaster Peak (Nev.)	3/26	35	12.1	13.5	9.5
Emigrant Butte	3/29	0	0.0	0.0	1.8 <sup>h</sup>
Fish Creek	4/3	73	26.3	30.7	25.0
Fish Creek Pillow*	4/3		26.7	43.3	- -
Fish Creek <sup>e</sup>	4/3	69	24.1	34.4	25.0
Hart Mountain <sup>e</sup>	3/29	6	1.8	0.0	0.9 <sup>m</sup>
Idlewild Camp	3/29	0	0.0	0.0	4.2
Idlewild Camp Alt.	3/29	0	0.0	0.0	- -
Izee Summit	3/28	23	6.2	4.7	7.5
Lake Creek R.S.	3/29	19	6.6	9.4	9.3
Oregon Canyon <sup>e</sup>	4/3	30	10.5	1.1	4.4 <sup>m</sup>
Rock Spring	3/27	10	4.0	1.7	4.3
Silvies	4/3	41	13.9	19.4	12.3
Silvies Pillow*	4/3		16.8	34.1	- -
Silvies <sup>e</sup>	4/3	34	11.9	16.6	- -
Snow Mountain	3/29	33	10.6	15.2	12.9
Snow Mountain Pillow**	3/26		8.3	14.3	- -
Starr Ridge	3/28	8	2.8	5.0	4.1
Stinking Water	3/30	0	0.0	0.0	0.3 <sup>m</sup>
Trout Creek <sup>e</sup>	4/3	45	15.7	4.6	7.9 <sup>m</sup>
"V" Lake <sup>e</sup>	4/3	34	11.9	8.4	3.8 <sup>m</sup>

\*Manometer reading.

\*\*Telemetry reading.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average or 5 or more years in base period.



# BASIC DATA SUPPLEMENT 2

APRIL 1, 1973

## SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average <sup>i</sup>
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	3/28	9.6	11.0 <sup>f</sup>	12.9 <sup>h</sup>
Big Bend (Nev.)	6700	48	16.7	3/23	12.0	14.9	15.9 <sup>h</sup>
Blue Mountain Spring	5900	42	16.9	3/29	6.6	13.1	11.2
Crane Prairie	5375	48	18.2	3/29	15.1	17.9	16.3
Jordan Valley	4390	48	19.3	3/29	16.5	16.6	-
Mud Flat (Ida.)	5500	48	12.8	3/28	11.2	14.0 <sup>f</sup>	13.2
Rodeo Flat (Nev.)	6800	42	11.0	3/21	4.1	7.8	10.8 <sup>h</sup>
Taylor Canyon (Nev.)	6200	48	15.1	3/27	12.6	13.5	14.0 <sup>h</sup>
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	3/30	9.8	16.0	11.5
Dooley Mountain	5430	36	9.2	3/29	3.3	7.0	4.5
Emigrant Springs	3925	48	22.3	3/27	21.1	20.4	20.2
Ladd Summit	3730	48	18.9	3/28	10.3	13.3	11.1
Moss Springs	5850	36	25.8	4/2	14.5	16.3	-
Tollgate	5070	48	23.6	3/29	17.2	17.1	19.5
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	3/27	13.7	13.7	13.3
Emigrant Springs	3925	48	22.3	3/27	21.1	20.4	20.2
Tollgate	5070	48	23.6	3/29	17.2	17.1	19.5
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	3/27	13.7	13.7	13.3
Beech Creek	4800	48	21.3	3/30	15.8	20.4	14.4
Blue Mountain Spring	5900	42	16.9	3/29	6.6	13.1	11.2
Blue Mountain Summit	5100	36	16.8	3/30	9.8	16.0	11.5
Derr	5670	24	9.0	3/27	7.9	8.3	-
Marks Creek	4540	36	14.1	3/27	10.3	13.3	12.6
Snow Mountain	6300	48	16.7	3/29	12.1	16.2	14.2
Starr Ridge	5150	36	10.6	3/28	9.6	10.6	10.0
Williams Ranch	4500	42	17.9	3/27	17.4	17.8	17.2
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	3/27	7.9	8.3	-
Marks Creek	4540	36	14.1	3/27	10.3	13.3	12.6
Snow Mountain	6300	48	16.7	3/29	12.1	16.2	14.2
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur	3490	72	26.4	3/30	14.2	14.2	-
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	3/28	7.3	10.3	8.8

APRIL 1, 1973

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	3/28	12.9	13.2	12.5
Quartz Mountain	5230	48	15.3	3/28	7.3	10.3	8.8
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	3/29	6.6	13.1	11.2
Fish Creek	7900	48	15.0	4/3	13.4	10.1	- -
Silvies	6900	48	16.4	4/3	15.9	16.0	13.1
Snow Mountain	6300	48	16.7	3/29	12.1	16.2	14.2
Starr Ridge	5150	36	10.6	3/28	9.6	10.6	10.0
Willow-Bald	5000	24	6.6	3/29	4.5	6.6	5.6

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# BASIC DATA SUPPLEMENT 3

APRIL 1, 1973

## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average
Allison Work Center (Harney County)	5320	2/27 to 3/29/73	5.06	6.39	
Althouse (Josephine County)	4530	2/27 to 3/29/73	4.73	6.30	
Aneroid Lake #2 (Wallowa County)	7400	2/28 to 3/27/73	2.50		
Arbuckle Mountain (Morrow County)	5400	2/28 to 3/30/73	1.82	4.49	
Big Red Mountain (Jackson County)	6240	2/27 to 3/27/73	2.00		
Brooks Meadow (Hood River County)	4520	2/22 to 3/21/73	0.56	9.00	
Camas Creek (Lake County)	5825	2/28 to 3/28/73	2.50	4.90	
County Line (Umatilla County--Starkey Hdqs.)	4800	2/27 to 3/30/73	.00		
Derr (Wheeler County)	5800	2/23 to 3/27/73	1.25		
Goodrich Lake (Baker County)	6775	2/27 to 3/30/73	6.44		
Lucky Strike (Umatilla County)	5050	2/27 to 3/29/73	2.10		
Quartz Mountain Summit (Lake County)	6300	2/28 to 3/28/73	2.43	2.63	
Silver Creek (Lake County)	4900	2/27 to 3/30/73	1.85	2.00	
Strawberry (Lake County)	5760	2/28 to 3/28/73	2.20	3.15	
Summer Rim (Lake County)	7200	3/5 to 3/28/73	3.00		
Taylor Butte (Klamath County)	5040	2/26 to 3/29/73	1.40	4.30	
Taylor Green (Union County)	5800	2/26 to 4/2/73	2.20	6.10	
Tipton (Baker County)	5100	2/26 to 3/30/73	2.25	3.94	
<p>(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&amp;L Co. or USBR records. (m) Average for 5 or more years in base period.</p>					













# The Following Organizations Cooperate in the Oregon Snow Survey Work

## STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

## COUNTY

- Douglas County Water Resources Survey

## FEDERAL

- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Reclamation
  - Fish and Wildlife Service
  - Geological Survey
  - National Park Service
- Department of National Defense
  - Corps of Army Engineers

## PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

## MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

## IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warm Springs Irrigation District

## PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

Return this entire sheet to above address, if you do NOT wish to receive this material ☐, or if change of address is needed ☐ (indicate changes in address below, including ZIP code).

## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



# FIRST CLASS MAIL

USDA NATIONAL AGRICULTURAL LIBRARY  
CURRENT SERIAL RECORD  
BELTSVILLE, MARYLAND 20705